

ABSTRACT

A titanium dioxide powder which has a rutile content of 80 % or more and a BET surface area of 30 m²/g or more; and a method for producing the titanium dioxide powder wherein a titanium tetrachloride gas, an oxygen gas, a hydrogen gas, and steam are reacted in a gas phase, which comprises supplying the steam in the chemically equivalent amount necessary for oxidizing all of the titanium tetrachloride gas or more. The titanium dioxide powder is suitably used as a coating material for a glass substrate and a filler. The method can be employed for arbitrarily producing a titanium dioxide powder which is composed of fine particles having a great specific surface area and also has a very high rutile content or an anatase type titanium dioxide powder having a high specific surface area.